

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A vacuum fixer for adhering onto an adhered surface having fine cracks or indented portions, comprising:

a hat-shaped pressing plate made of rigid synthetic resin;
a disk-type suction plate made of soft synthetic resin and covered with the pressing plate and having a first diameter;

a screw shaft mounted on the upper end of the center of the suction plate and perforating the center of the pressing plate;

a vacuum wall being made of gel-type polyurethane and formed at the edge of the pressing plate, and having a second diameter greater than the first diameter, the vacuum wall filling the fine cracks or the indented portions during the adhering of the vacuum fixer onto the adhered surface; and

a screw tightening member coupled to a protruding front end of the screw shaft;
~~wherein the pressing plate includes a vacuum wall formed at the edge thereof in such a manner as to protrude outwardly from the bottom surface thereof toward an adhered surface, the vacuum wall being made of gel-type polyurethane which is 150—250 pes in viscosity and having an inclined compression surface directing to the center of the pressing plate, and a concentric circular saw-toothed type contact protrusion formed on the inner surface of the pressing plate in such a manner as to be positioned at the inner portion than the vacuum wall,~~

~~wherein the suction plate has a diameter smaller than that of the vacuum wall and includes a central part, an inclined part and a circumferential part, the circumferential part having an inclined lift surface formed on the peripheral edge thereof and overlapped with the inclined compression surface of the pressing plate, the inclined lift surface having a gradually narrowed upper portion and a gradually widened lower portion, and~~

~~wherein the screw tightening member has a hanger formed on the upper end thereof.~~

2. (Currently Amended) The vacuum fixer according to claim 1, wherein the vacuum wall is made of polyurethane where diol compound having a molecular weight of 4,000 ~ 6,000 is mixed with methylene- diisocyanate in the ratio of 1 : 8 to 1 : 12.

3. (Currently Amended) The vacuum fixer according to claim 1, wherein the vacuum wall is in the form of a right-angled triangle where the ratio of the height to the base line is 1 : 1.5 to 1 : 1.8.

4. (Currently Amended) The vacuum fixer according to claim 1, wherein ~~[[the]]~~ a central part of the suction plate is four ~~[[or]]~~ to five times thicker than ~~[[the]]~~ a circumferential part of the suction plate.

5. (Currently Amended) A vacuum fixer for adhering onto an adhered surface having fine cracks or indented portions, comprising:

a hat-shaped pressing plate made of rigid synthetic resin;

a disk-type suction plate made of soft synthetic resin and covered with the pressing plate and having a first diameter;

a screw shaft mounted on the upper end of the center of the suction plate and perforating the center of the pressing plate;

a vacuum wall being made of gel-type polyurethane and formed at the edge of the pressing plate, and having a second diameter greater than the first diameter, the vacuum wall filling the fine cracks or the indented portions during the adhering of the vacuum fixer onto the adhered surface; and

a screw tightening member coupled to a protruding front end of the screw shaft,

~~wherein the pressing plate includes a vacuum wall formed at the edge thereof in such a manner as to protrude outwardly from the bottom surface thereof toward an adhered surface, the vacuum wall being made of gel-type polyurethane which is 150 ~ 250 pcs in viscosity and having an inclined compression surface directing to the center of the pressing plate, and a concentric circular saw-toothed type contact protrusion formed on the inner surface of the pressing plate in such a manner as to be positioned at the inner portion than the vacuum wall,~~

~~wherein the suction plate has a diameter smaller than that of the vacuum wall and includes a central part, an inclined part and a circumferential part, the circumferential part having an inclined lift surface formed on the peripheral edge thereof and overlapped with the inclined compression surface of the pressing plate, the inclined lift surface having a gradually narrowed upper portion and a gradually widened lower portion, and~~

wherein the screw tightening member has a grip formed on the upper end thereof.

6. (New) The vacuum fixer according to claim 1, wherein the gel-type polyurethane is 150 ~ 250 cps in viscosity.

7. (New) The vacuum fixer according to claim 1, wherein the vacuum wall is formed at the edge of the pressing plate in such a manner as to protrude outwardly from the bottom surface of the pressing plate toward the adhered surface.

8. (New) The vacuum fixer according to claim 1, wherein the vacuum wall has an inclined compression surface directing to a center of the pressing plate.

9. (New) The vacuum fixer according to claim 8, wherein the pressing plate has a co-centric circular saw-toothed type contact protrusion formed on an inner surface of the pressing plate in such a manner as to be positioned at an inner portion of the vacuum wall.

10. (New) The vacuum fixer according to claim 9, wherein the suction plate has a central part, an inclined part and a circumferential part, the circumferential part having an inclined lift surface formed on the peripheral edge of the suction plate and overlapped with an inclined compression surface of the pressing plate, the inclined lift surface having a gradually narrowed upper portion and a gradually widened lower portion.

11. (New) The vacuum fixer according to claim 1, wherein the screw tightening member has a hanger formed on an upper end of the screw tightening member.